



## MAXDURA® KEG EMBEDDED

Superior Performance and Robustness in Tagging Beer Kegs with PU Covers

MAXDURA® KEG EMBEDDED tags are Smartrac's solution for reliably identifying and tracking beverage kegs with polyurethane (PU) covers under bulk reading conditions. The UHF/RAIN RFID tags are the result of an application-centric development procedure including practical tests in close cooperation with potential business partners.

MAXDURA KEG EMBEDDED tags come as printed circuit boards (PCB), and are perfectly suited for embedding or inserting into the PU cover. Carefully optimized for this environment, MAXDURA KEG PU offers superior reading characteristics that allow 100% reading rates even when palettes or truckloads with up to 50 kegs pass an UHF RFID gate.

Abolishing the need for welding, MAXDURA KEG EMBEDDED tags are suitable for building into new kegs as well as for retrofitting existing ones. They are available as plain PCBs or equipped with mounting devices for diverse manufacturing or retrofitting processes.

MAXDURA KEG EMBEDDED tags come equipped with Impinj Monza R6-P ICs that comply with EPC Class 1 Gen 2 and ISO 18000-6C standards and protocols, and meet industry demands by delivering unmatched read performance, data integrity and encoding speeds.

MAXDURA KEG EMBEDDED tags can benefit from the capabilities of Smart Cosmos: Smartrac's IoT platform can securely record and manage a complete set of unique transponder data (e.g. UID no., order no., batch no., or yield) at production level. As the backbone of Smartrac's product digitization solutions, Smart Cosmos enables full traceability of delivered RFID products and provides reliable quality assurance.

Smartrac's inlays and tags are compliant with ISO 9001:2015 Quality Management and ISO 14001:2015 Environmental Management, which ensure a reliable and state-of-the-art product that meets a variety of application needs, especially in the retail environment.

### Overview

#### Operating Frequency

860-960 MHz (ETSI/FCC)

#### Integrated Circuit (IC)

Impinj Monza R6

#### Dimension

60 × 10 mm

#### Material

PCB

### International Standards

- ▶ EPC Class 1 Gen 2
- ISO 18000-6C

### Application Areas

- ▶ Beer Keg Management
- ▶ RTI for Non-metal Application

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Technical Features	
<b>IC + Memory*</b>	Impinj Monza R6 EPC Class 1 Gen 2; ISO 18000-6C Protocol compliant EPC 96 bit, TID 48 bit Data retention of 50 years, Write endurance 100,000 cycles
	<b>Sales Code</b> 510026
Core Size	10 × 60 mm Length 60 mm mm; width 10 mm; thickness < 3 mm
Read Range	@920 MHz: On metal: 10 m; on metal keg: 5 m @868 MHz: On metal: 8 m; on metal keg: 3 m
Operating Mode	Passive (battery-less transponder)
Operating Temperature	-20°C to + 70°C
Storage Temperature	-40°C to + 85°C
Adhesive	Embedded in PU
Conformity	Radio Equipment Directive 2014/53/EU, REACH, RoHS
Standards	Vibration test according to IEC 68.2.6 Shock test according to IEC 68.2.29
Protection Class	IP65

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